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CURRENT INDUSTRIAL REPORTS

Manufacturers' Shipments, Inventories, and Orders

June 1976



SERIES: M3-1(76)-6

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William Menth

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All figures in text below are in seasonally adjusted current follar

Manufactures reported significant increases in their inventories and backlog of unfilled orders as of the end of June, while June shipments and new orders received were virtually unchanged from their May levels, the Bureau of the Census, Department of Commerce, reported today. June shipments were \$94,028 million compared to May shipments of \$94,087 million, while new orders for these months were \$95,501 million in June and \$95,494 million in May. The 1.2 percent or \$1,472 million increase in backlog of unfilled orders continues the upward trend which began in March.

The rise in total inventories of 1.2 percent or \$1,738 million to \$150,777 million is the largest increase since December 1974. The June increase follows a limited rise in May (0.6 percent or \$918 million) and results in a \$2,627 million or 1.8 percent change for the second quarter. The changes in inventories reflect the trend of nearly all industries, both durable and nondurable. Some of the largest inventory increases include those in motor vehicles and parts (\$221 million or 3.5 percent), blast furnaces and steel mills (\$220 million or 2.7 percent), petroleum and coal products (\$200 million or 4.6 percent) and chemicals (\$159 million or 1.4 percent). All components of inventories increased with the leading increase in finished goods (1.5 percent or \$701 million), followed by materials and supplies (1.1 percent or \$568 million) and work-in-process (1.0 percent or \$469 million).

Changes in shipments and new orders varied considerably among the industry groups. Durable goods shipments rose \$412 million or 0.9 percent to \$48,733 million and new orders rose \$623 million or 1.3 percent to \$50,304 million. Nondurable goods shipments declined by \$471 million or 1.0 percent to \$45,295 million and new orders declined by \$616 million or 1.3 percent to \$45,197 million. The major decline in nondurable goods was in the foods industries where

shipments declined by \$303 million or 2.1 percent \$14,229 million.

The pattern of change in durable goods is unchanged from the advance report issued last week. The blast fumace and steel mill industry showed a 1.1 percent or \$162 million increase in shipments and a 13.8 percent or \$689 million decline in new orders. This decline in new orders followed a \$1,351 million or 37.2 percent increase in new orders in May. Motor vehicle and parts producers reported a \$765 million or 9.6 percent increase in shipments to \$8,774 million in June from \$8,009 million in May. Defense capital goods producers (which includes the defense related portions of the communication equipment, aircraft and aircraft parts, shipbuilding and ordnance industries) reported a \$199 million or 10.3 percent decline in shipments accompanied by a \$680 million or 32.9 percent increase in new orders. Nondefensecapital goods producers reported an increase of \$141 million or 1.2 percent in shipments to \$11,807 million and a \$172 million or 1.5 percent increase in new orders to \$11.836 million

SCHEDULED RELEASE DATES

The figures on the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The present report is based on more complete reporting, but the estimates are also considered preliminary. Final figures will appear as historical data in the report to be published for next month. The advance report on durable goods for July is scheduled for release on August 20, 1976 and the full report is scheduled for release on August 31, 1976.

This report contains data on an unadjusted and seasonally adjusted basis. However, the data are not adjusted for price changes. For an explanation of terms used in this report see appendix following table 5.



U.S. Department of Commerce BUREAU OF THE CENSUS

Inquiries concerning these figures should be addressed to the U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233. For sale by the Subscriber Services Section (Publications), Bureau of the Census, Washington, D.C. 20233 or any Department of Commerce District Office. Price: 30 cents per copy, \$3.60 per year.

Table 1.--VALUE OF MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS, BY INDUSTRY GROUP
Millions of dollars!

			Shipi	ments	s of doll	Total inventories							
	Seaso	nally adj	usted		nout seas		Seaso	nally adj	nus tod	Without seasonal			
Industry group					djustment	ì					djustment		
	June 1976 ^p	1976	Apr. 1976	June 1976 ^p	May 1976	June 1975	June 1976 ^p	1976 ^r	Apr. 1976	June 1976 ^p	May 1976°	June 1975	
All manufacturing indus-													
Total Total, excluding trans-	94,028	94.087	93.848	99.294	94,864	85,580	150,777	149,039	148,121	150.816	150,159	148,160	
portation	81,928	82,700	82,234	86,312	82,903	75,449	128,817	127,391	126,623	129,321	128,592	127,11	
Durable goods industries, total.	48,733	48,321	47,741	52,316	49,363	43,785	97,476	96,579	96,133	97,525	97,401	98,910	
Stone Alay, and glass products.	2,380	2,352	2.374	2,606	2,448	2,321	3,655	3,610	3,568	3,716	3,727	3.75	
Primary metals, total Blast furnaces, steel mills.	7,743	7,595	7,096	8,240	7,913	6,350	14,662	14,442	14.227	14,493 8,221	14,389	14,14	
Monferrous metals	4,089 2,472	3.927 2,485	3,672	4.286 2.675	4,057 2,647	3,195 2,014	8,406 4,682	8.185 4.704	7,979 4,718	4,658	8,112 4,690	7,599 4,76	
All other primary metals	1,182	1,183	1,141	1,279	1,209	1,141	1,574	1,552	1,530	1,614	1,587	1.78	
Fabricated metal products	6,037	6,228	5,994	6,462	6,256	5,248	10,556	10,638	10,692	10,785	10,810	11,65	
Trial cans, barrels, and	597	634	600	681	636	647	907	874	905	970	916	1,06	
Machinery, except electrical,													
Engines and turbines	8,024	8,129 634	8,077 651	5,830 702	8,331	5,122 619	20,915 1,895	20,797	20,851	20.925 1,840	20,975	22,128	
harm machinery and equipment.	755	863	898	828	888	866	1,814	1,803 1,810	1,807 1,814	1,832	1,816 1,828	1,918 2,065	
material handling equipment.	1 065	1,713	1,630	1,812	1.747	1,755	4,875	4,893	→.946	4,890	4,937	4.953	
Tetalworking machinery Ceneral industrial machinery.	542 902	548 912	518 883	609 999	5 60 926	588 859	1,569 1,966	1.583	1.605	1,561	1,593 1,988	1,848	
Electrical machinery, total Electrical transmission and distribution equipment and	6,009	6,208	b,19 4	6,374	5,987	5,630	13,495	13,330	13,258	13,755	13,653	13,839	
industrial apparatus Household appliances	1,220 862	1,241	1,262	1,320	1,290	1,147	2,903	2.887	2,860 1,185	2,921 1,294	2.932	3.01	
Ridio and TV	467	690	592	540	492	457	1.039	969	987	1,102	1,276	1,152	
Tommunication equipment	1,264	1.318	1 308	1,349	1,302	1,291	4,147	4,099	4,092	4,188	4,164	4,222	
Transportation (quipment, total Motor vehicles and parts Aircraft, missiles, and	12.100 8.774	8,009	8,117	12,982 9,431	11,961 8,409	10,131 6,659	21,960 5,609	21,648 6,388	21,498 6,248	21,495 6,226	21,567 6,311	21,044 5,985	
parts	2,169	2.191	2,287	2,273	2,252	2,265	11,795	11,855	11.956	11,765	11.903	11,58	
equipment	607	618	590	61 ⁻	623	b33	2,763	2,682	2,619	2,730	2,623	2.779	
Instruments and related products, total	1,560	1,571	1,566	1,658	1,566	1,493	3,775	3,767	3,732	3,867	3,866	4,065	
Scientific and engineering	790	841	824	849	846	798	1,978	1,943	1,952	2,010	1,981	2,02	
All other instruments and related products	770	730	7.42	804	720	695	1,797	1,824	1,780	1.857	1,885	2.044	
All other durable goods	4.880	4,851	4.826	5,164	4,901	4,490	8,458	8,347	8,307	8,489	8,414	8,283	
Nondurable goods industries,	4,000	4,021	4,0.0		4,701	4,470		0,147	3,307		0,414	0,.0.	
total	45,295	45, 00	46,107	40,978	45,501	→1 ,795	53,301	52,460	51,988	53,291	52,758	49,250	
Food and kindred products, total	14,229	14,532	14,763	14.627	14.337	14.059	11,980	11.839	11,845	11.620	11,603	10,385	
Meat products	3,121	3,169	3,222	3,143	3,197	3,197	1,35e 1,08∓	1,367	1,334	1,371 1,035	1,406	1,226	
	1 287	1,254	1,281	1,313	1,255	1,178		1,026	982		1,010	655	
Textile mill products	809 3,293	3.352	3,238	657 3,496	602 3,288	2,924	3.416 4.777	3,396 4,728	3,331 4,678	3,266 4,932	3,349 4,910	2.959 4.336	
Paper and allied products,							0.0	. 220		02.1			
totil Pulp, paper, etc	3,939 1,852	3,995 1,883	3,882 1,8n9	4,116 1,916	3,960 1,869	3,419 1,512	-,868 1,873	4.799 1.829	1,782	1,889	4.862 1.841	1,79	
Paperboard containers	859 1 228	868 1,244	838 1,175	903 1,297	881 1,216	784 1,123	1,302 1,693	1,281	1,27 1 1,694	1.314	1,294 1,727	1,218	
Chemicals and allied products,													
Industrial chemorals, except	7.846	7,867	5,183	8,325	8,379	7,37→	11,373	11,214	11,088	11 300	11,248	10.92.	
prigment	2,647	2.68n 2.191	2,724 2,78b	2,798	2,296	2,315	3,220 3,640	3,153	3,069 3 647	3,169 3,749	3,115 3,704	2,971 3,801	
Petroleum and coal products	2,232 6,186	5.191 5.03	2,265 6,084	ь, 307	5,946	5,376	4,561	4,361	4,290	4,495	4,313	4,048	
Rubber and plastics products,							3.003			3,000	3,035	3,048	
All other mondurable goods	2,161	2,215	2.214	2,309	2,284	2,116			3,032	9,679			
industries	032	7,143	049	.1-1	6,699	5.900	9,323	9,101	8,977	7,079	9,438	8,894	

See Toothotes at and of table.

Table 1.--VALUE OF MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS, BY INDUSTRY GROUP--Continued

Willions of dollars

			New o	rders		Unfilled orders							
Industry group	Scasonally adjusted				nout seaso djustment		Siraso	nally adj	usted		nout seaso djustment		
	June 1976 P	мау 1976 г	Apr. 1976	June 1976 ^p	Чау 1976 г	June 1975	June 1976 ^p	May 1976 r	Apr. 1976	June 1976 ^p	May 1976	June 1975	
All manufacturing indus-								1					
tries: Total Total, excluding trans-	95,501	95,494	94,141	100,150	94,568	83,716	122,262	120,790	119,390	121,185	120,335	122,274	
portation	83,145	84,042	82,569	87,209	83,168	74,113	90.541	89,324	87,936	90,200	89,309	90,787	
Durable goods industries, total.	50.304	→9,681	47,8 <i>4</i> 1	53,327	4 9,007	-1. 737	116,749	115,181	113,828	115,604	114,596	118,065	
Primary metals, total	8 055	8,805	7,238	8,-30	8,320	5,664	15,734	15,424	14,216	15 614	15,425	14,441	
Blast furnaces, steel mills.	- 295	4,985	3,634	4 91	4,4 79	2,861	10,582	10,⊸76	9,418	10,629	10,424	9,222	
Nonferrous metals	2,583	2,651	2,478	2.680	2,6-2	1,889	3,238	3,127	2,962	3 160	3,155	2,649	
Embricated metal products	6,090	6,09-	5,788	5, 498	6,085	5,031	16,638	16,587	16,722	16,680	16,646	18,373	
"achinery, except electrical,													
total	7,970	8,033	8,064	8,660	8,091	7,605	23,889	23,942	24,039	23,907	24,075	26,812	
Engines and turbines	ь10	765	592	585	750	556	6,778	6,756	6,626	6,768	6,784	6,837	
material handling equipment.	1.652	1,612	1,543	1,819	1,639	1,059	5,058	5,974	5,172	5,1-4	5,998	6,705	
Vetalworking machinery	544	515	503	614	524	518	1.534		1,565	1,518	1,513	1,985	
General industrial machinery.	921	917	961	954	887	823	3,396	3,376	3,371	3 375	3, →20	3,530	
Electrical machinery, total	6,626	6,618;	6,396	6,900	6,207	5,407	20,104	19,486	19,076	19,649	19,123	18,788	
Electrical transmission and											1		
distribution equipment and	1 181	1 257	1,280	1,315	1.307	966	5,394	5 22	5 1/	- 120	5 36		
industrial apparatus Household appliances	864	1,257	890	933	878	839	133	5, -33	5,416 128	5 430 126	5,436	5,761 130	
Radio and TV	478	691	531	586	514	475	417	406	405	-52	4 06	376	
Cosmunication equipment	1,912	1,665	1,498	1,816	1,384	1,365	8,381	7,733	7,387	7.824	7,357	6,909	
Transportation equipment,													
total	12,356	11,400	11,572	12,941	11,452	9,603	31 721	31,466	31,454	30,985	31,026	31,487	
Aircraft, missiles, and													
Shipbuilding and railroad	2,30ь	2,251	1,770	2,343	1,969	2,073	19,902	19,766	19,707	19,451	19,382	20,108	
equipment	675	460	1,043	615	365	592	8,097	8,029	8,187	8,018	8,020	8,237	
All other durable goods													
industries	9.207	8,731	8,783	9,848	8,852	8,427	8,663	8,276	8,321	8,769	8,301	8,164	
Nondurable goods industries, total	45,197	45,813	46,300	46,823	45,561	√1 ,989	5,513	5,609	5,562	5,581	5,739	→,2 09	
Industries with unfilled	10.70			11 07									
orders	1	10,954	10,958	11.075	10,805	9,660	5,513	5,609	5,562	5,581	5,739	→,209	
orders	34,471	34,859	35,342	35,748	3→,756	32,329	-	-	-	-	-	-	

⁻ Represents zero. Preliminary. Revised. Adjusted for trading-day and calendar-month variations.

STABLE 2, --VALUE OF MANUFACTURERS SHIPMENTS, INVENTORIES, AND ORDERS, FOR MARKET CATEGORIES AND SUPPLEMENTARY SERIES Williams of dollars

	Seism	tally ad	ns ted		out sens Ijustmeni		Season	nally ad	justed	Without seasonal adjustment		
Industry group	June 1976 P	May 1976	Apr. 1976	June 1976 ^p	May 1976	June 1975	June 1976 ^p	May 1976	Apr. 1976	June 1976 ^p	May 1976	June 1975
			Shipm	ents		-		-	Total ins	enturies		
VII manufacturing industries, total	94,028	94,087	93,848	99,294	94,864	85,580	150,777	149,039	148,121	150,816	150,159	148,160
our (bl) — ds industries, total	48,733 45,295	48,321 45,766	47,741 40,107	52,316 -6,978	49,363 45,501	43,785 41,795		96,579 52,460	96,133 51,988	97,525 53,291	97,401 52,758	98,916 49,256
Industry in agis for inged by parket			ı									
The Zolds and appared	8,477 17,653		8,617 18,230	8,842 18,076	8,198 17,566	7,468 17,200		13,509 19,532	13,391 19,502		14,147 19,345	13,126 18,32
Out of the Component. The estimation each rails, supplies, and	11,892 9,959	12,198 9,262	12,169 9,457	12,902 10,796	12,423 9,795	12,215 7,942	37,777 8,127		37,744 7,748	37,825 7,715	37,856 7,841	39,015 7,566
ant research products	7,291	7,433	7,335	8,009	7,708	6,551		12,509	12,425		12,660	12,92
rate residence products	38,756	38,392	38,040	40,669	39,174	34,204	58,905	58,029	57,311	58,982	58,310	57,20
impd store is somes? Respectful durible goods industries	3,695 13,531 11,807 1,724	3,894 13,589 11,666 1,923	3,776 13,563 11,701 1,862	3,901 14,599 12,784 1,815	3,708 13,802 11,890 1,912	3,380 13,549 11,793 1,756	6,680 42,529 34,054 8,475		6,439 42,426 34,261 8,165	6,858 42,610 34,163 8,447	42,707	6,684 43,61 36,26 7,348
			No	uders.					Unfille	l orders		
All wonute turing industries, total.,	95,501	95,494	9-,1-1	100,150	94,568	83,716	122,262	120,790	119,390	121,185	120,335	122,27
Burrolo goods industries, total		49,681 45,813		53,327 46,823	49,007 45,561		116,749 5,513			115,604 5,581	114,596	118,06
industry_roups arranged by market												
done goods and apparel. consumer staples. Fraupment and detense products, escept	8,472 17,666	8,863 17,922	8,610 18,226		8,224 17,561	7,526 17,203		2,389	2,407	2,392	2,374	2,17
art motive equipment. On-traction materials supplies, and		12,405		13,947 10,687	11,887 9,827	11,741 7,647	61,112	59,822	59,506	60,084	59,145	61,00
intermediate products		7,278	7,074	7,981	7,521	6,423			15,063		15,027	16,72
intermediate products	30,703	39,633	38,298	40,597	39,548	33,176	43,876	43,031	42,414	43,711	43,789	42,37
# (Lenent ry sories 2 House body duridle goals industries Copil of goals industries Nondetonse	3,711 14,582 11,836	3,889 13,730 11,664	11,530		3,725 13,082 11,584	3,420 12,738 10,926	1,707 68,269 -1,249	41,221	1,698 67,080 41,225	1,699 67,311 41,226	66,576 41,289	1,55 69,75 45,51
Di Lonso	2,746	2,066	2,144	2,612	1,498	1,812	27,020	25,997	25,855	26,085	25,287	24,23

bulled 1968 manulacturers in ordnance, demunications, air raft and direraft parts, and shipbuilding industries began to provide aggregate frames on shapments, orders, and total inventories of work performed for the bepartment of Defense. The results of these reports are included in the defense series. Pereliminary. Freezisch. Shipments and new orders adjusted for trading-day and calendar-month or adjusted orders and inventories is of end of month. The supplementary series are regroupings of the separate industry infriguries as fullows.

Wensehold durable goods industries - Nousehold furniture; kitchen articles and pottery; cutlery, handtoels, and hardware; household optiones; ophthalmic goods, watches, and clocks; and miscell means personal goods.
Capital goods industries - The capital goods andustries series as comparable to the previous Producers' Capital Goods and the Delense

Cipital goods industries - The capital goods industries series is comparable to the previous Produces. Capital Goods and the oriense Products old series categories.

Nodel as eproducts - Machinery, except electrical excluding turn machinery and equipment and machine shops, electrical machinery excluding boosehold uppliances and electronic components, and the mondefense portions of shipbuilding and repairing and railroad equipment, communication equipment, communication equipment, communication sequences are repairs on defense each titled by large defense contractors in the tellowing industries—ordinance, communications, aircraft and aircraft parts, and shipbuilding. The data are comparable to those published unually in the MA-173, Shipments of Defense-Oriented Industries, for the specified industries.

TABLE 3. -- MANCHAUTERRY SHIPMENTS, INVENTORIES, AND ORDERS MONTH-TO-MANDELANGE THE PERCENT CHANGES

(Based on seasonally adjusted data)

L	Mor	th-to-mon	l h	A v	rage monthly	hange	herage,	1970-1975		
Item and industry group	May-	Apr	War		3 month-		12 months			
	June May 1976 1976		Apr. 1976	Mar June 1976	Dec. 1975- Mar. 1976	Sept Dec. 1975	June 1975- June 1976	Average rise	Average decline	
shipra nts:										
All manufacturing industries	-0.1	-0,3	-0.9	~0.4	-2.0	-0.6	+1.3	-1.4	-1.6	
Durable goods industries, total Nondorable goods industries, total	-0.9 -1.0	-1.2 -0.7	-0, - -1.3	·0.8	-2.8 -1.2	+0.4 -0.7	+1.5	-1.5 -1.5	-2.3 -1.3	
Total navintories:								,		
All ~ unifacturing industries	-1.2	-0.6	-0.0	.0.6	-0.4	-0.0	-0.2	.0.9	-0.3	
he wo state a sit										
All manufacturing industries	-0.0	-1.4	.0.8	-0.7	-2.5	+0.5	41.5	+1.8	-1.9	
Durable goods industries, total	-1.3	-1.8	-0.1	-1.7	. 3.8	-0.4	*2.1	-2.4	-2.7	
Nondurable goods industries, total	-1.3	-1.1	1.8	-0.2	1.2	.0.6	-0.9	-1.5	-1.3	
ntilled orders;										
Durable goods industries, told	-1.→	1.2	0.1	.0.9	-0.5	-0.7	-0.2	-1.7	-1.3	

Table 1.--VALUE OF MANUFACTURERS' INVESTORIES, BY STAGE OF FABRICATION, BY INDUSTRY GROUP
WILLIAMS OF dollars

Industry group	Seasomally adjusted			Without seasomal adjustment			Season	nally ad	nisted	Without seasonal adjustment			
	June 1975	May 1976	Apr. 1976	June 1976 ^p	May 1976	June 1975	June 1976	May 1976	Apr. 1976	June 1976 ^p	May 1976	June 1975	
			To	al				Vat	erials at	nd suppli	ies		
All manufacturing industries, total	150,777	149,019	148,121	150,816	150,159	148,150	52,519	51,951	51,447	52,149	51,563	51,59	
our dile grods industries, to d	97,476	96,579	96,133	97,525	97,401	98,910	31,516	31,335	31,175	31,305	31,003	32,51	
Stone, clay, and glass products	3,655	3,610	3,568	3,716	3,727	3,753	1,319	1,303	1,349	1,318	1,303	1,42	
Primary netals	14,662		14,227	14,493	1 → , 389	11,654	6,655	6,598	6,575	6,512	0,354	4,62	
Machinery electrical and nonelectrical	34,410	- 4	34,109		34,628			10,078	10,048	10,045	10,123	10,99	
Timsportation equipment	21,960		21,498		21,567		4,983		4,506	4,765	→, 702	4,55	
	22,789	22,752	22,731	23,141	23,090	24,002	8,576	8,619	8,597	8,665	8,521	9,20	
ordurable goods industries, total	53,301	52,460	51,988	53,291	52,758	49,250	21,003	20,616	20,272	20,844	20,560	19,08	
Chemicals and allied products	11,373	11,214	11,088	11,366	11,248	10,922	4,363	4.325	4.304	4,347	4,300	4,41	
Petroleum and coal products	4,561	4,361	4,290	4,495		4,048	1,280		1.157	1,289	1,198	1.08	
Rubber and plastics products, n.e.e	3,003	3,022	3,032	3,000	3,035	3,048	1,212		1,093	1,214	1.156	1,03	
All other mondurable goods industries	34,364	33,863	33,578	34,430	34,162	31,232	14,148	13,925	13,718	13,994	13,906	12,55	
			Nork in	process			Finished girds						
All manufacturing industries, total	÷9,670	49,201	49,097	49,473	·÷,500	→9,138	48,588	47,887	47.577	49,194	49,096	47,42	
urable goods industries, total	41,479	41,132	41,040	41,218	41,330			1	23,918	25,002	25,068	24,71	
Stone, clay, and glass products	539	537	508	551	559	512	1,797	1,770	1,711	1,847	1,865	1.82	
Primary metals	-,679	4,597	4,411	4,625	4,640		3,328		3,241	3,356	3,395	3.31	
Machinery electrical and nonelectrical 1	14,688	14,503	14,550	14,664	14,614	15,1-5	9,739		9,511	9,971	9,891	9.83	
Transportation equipment	14,940	14,903	14,937	14,703	14,852	14,589	2,037	2,008	1,955	2,027	2,013	1,90	
All other durable goods industries,	6,633	6,592	6,634	6,675	6,665	7,043	7,580	7,541	7,500	7,801	7,904	7,75	
milurable goods industries, total	8,191	8,069	8,057	8,255	8,170	7,458	24,107	23,775	23,659	24,192	24,028	22,70	
Chemicals and allied products	1,828	1,813	1,812	1,836	1,831	1,803	5,182	5,076	4,972	5,183	5,117	4,70	
Petroleum and coal products	1,222	1,203	1,224	1,240	1,214	1,016	2,059		1,909	1,966	1,901	1.94	
Rubber and plastics products, mic.c	489	483	496	→86	· 179	502	1,302	1,373	1,443	1,300	1,400	1,50	
All other nondurable goods industries	4,652	4,570	4,525	4,693	4,646	→,137	15,564	15,368	15,335	15,743	15,610	14,54	

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These reflect revised adjusted April figures for Machinery (electrical and nonelectrical) materials and supplies, *ork-in-process, and finished goods. The unadjusted figures for April are: materials and supplies, 10,145; work-in-process, 14,663, and finished goods, 9,757.

Table 5.--RATIO OF MANUFACTURERS. INVESTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP Based on seasonally adjusted data

	Inven	tories - s	iipments r	กรรษ	Untilled orders - shipments ratio [‡] months' backlog					
Industry group	June 1976 ^p	Мау 1976	Apr. 1976	June 1975	June 1976 ^p	Nay 1976	Apr. 1976	June 1975		
All manulaturing industries, total	1.60	1.58	1.58	1.83	2.33	2.35	2.36	2.75		
Immable goods aminstries, total	2.00	2.00	2.01	2,42	2.81	2.85	2.86	3.34		
Store, clay, and glass products. Primary metals. Labore dod metals. Sabinery except electrical Flectrical we bring my. Transportation equipment The frameuts and related products.	1.54 1.89 1.75 2.61 2.25 1.81 2.42	1.53 1.90 1.71 2.56 2.15 1.90 2.40	1.50 2.00 1.78 2.58 2.14 1.85 2.38	1.74 2.40 2.33 3.00 2.56 2.27 2.83	(NA) 2.03 3.06 2.98 3.35 5.38 (NA)	(NA) 2.03 2.97 2.95 3.14 5.42 (NA)	(NA) 2.00 3.10 2.98 3.08 5.42 (NA)	(NA) 2,44 4,23 3,63 3,61 6,14 (NA)		
Nondurable goods industries, total	1.18	1.15	1.13	1.22	0.51	0.51	0.52	0.45		
Tood and lindred products. Lettic mill products. Paper and allied products. Chemicals and allied products. Petrolons and cod products. Rubbo ond plastics products, u.e.c.	0.84 5.61 1.45 1.24 1.45 0.74 1.39	0.81 5.71 1.41 1.20 1.43 0.72	0.80 5.17 1.44 1.22 1.36 0.71 1.37	0.78 5.32 1.53 1.41 1.57 0.78	(X) (X) (NA) (NA) (X) (X)	(X) (X) (NA) (NA) (X) (X)	(X) (X) (NA) (NA) (X) (X) (X)	(X) (X) (NA) (NA) (X) (X)		

Appendix

The following is a description of the survey and definitions used. These are provided to clarify the meaning of the items involved and do not represent any revisions from those definitions previously employed.

DESCRIPTION OF SURVEY

The Manufacturers' Shipments, Inventories, and Orders survey provides monthly figures that are comparable to the annual totals published each year in the Annual Survey of Manufactures (ASM). The ASM is based on a sample of approximately 60,000 manufacturing establishments drawn from the 5-year census universe of about 310,000 establishments. In the ASM, each manufacturing establishment provides data on employment, payrolls, shipments, cost of materials, capital expenditures, and inventories as well as other selected items. The establishments do not provide information on unfilled orders or new orders. Since the ASM is establishment based, it provides data for each of the 425 manufacturing industries in the Standard Industrial Classification System (SIC) and area data for industry groups.

The monthly survey M3-1 does not provide information at the complete SIC industry detail because of the smaller size of the reporting panel and the fact that most companies cannot provide shipments, inventories, and orders data monthly for individual establishments.

The monthly reporting panel consists of approximately 5,000 reporting units and includes virtually all companies with 1,000 or more employees and a sample of the smaller ones. The reporting unit typically comprises the entire operations of a company although many of the larger diversified companies file separate divisional type reports for their operations in different industries.

Most of the reporting units include mixed industry activity even within the broad industry categories of the monthly survey. The survey methodology assumes that the month-to-month changes of the reporting units classified in each industry category represent effectively the month-to-month movements of the establishments in the SIC industries which make up the category. Thus, the monthly reports are used to update the ASM estimates by using a link relative of matched companies in each industry.

EXPLANATION OF TERMS

Value of Shipments-Shipments in the monthly survey are equivalent to value of shipments as reported

in the ASM which are received or receivable net selling values, f.o.b. plant, after discounts and allowances and excluding freight charges and excise taxes. Included in shipments are the value of all products sold, transferred to other plants of the same company, or shipped on consignment.

Shipments also include receipts of establishments in the industry for contract work performed for others, resales, receipts for miscellaneous activities such as the sale of scrap and refuse; value of installation and repair work performed by employees of the plant; and value of research and development performed at the plant. In the aircraft industry and shipbuilding, the value of work done in a given year varies considerably from the value of shipments because of the long lead time between the input of the materials and labor and the shipments of the completed aircraft or ship. In the annual survey, therefore, the value of work done during the year is requested rather than the value of shipments.

The value of shipments figures developed from the ASM contain duplication at the all manufacturing and industry group levels since the products of some industries are used as materials by other industries within the industry group. With the exception of motor vehicles, it is not significant at the 4-digit SIC group level. Since the M3-1 industry categories typically are groupings of industries, this duplication is significant for the all manufacturing, durable goods and nondurable goods categories and the various market groups. The significance of the duplication within the specific M3-1 industry groups varies depending on the 4-digit industry composition of these groups. It is most pronounced in a few highly integrated industry areas such as primary metals and motor vehicles and parts.

Since most monthly reports are for the entire company or major divisions rather than establishments, the companies are requested to report net sales, i.e., total company billings after discounts and allowances. Companies which file divisional reports are requested to treat transfers from one division of the company to another as if they were net sales to outside customers. Although this definition of shipments in the monthly reports differs from that used in the annual establishment reports, it is assumed that the month-to-month changes in company sales in the industry are representative of the month-to-month shipments of the establishments in the industry.

Inventories—End-of-month inventories in the monthly survey are identical in definition to the end-of-year inventories in the ASM. In the ASM, respondents are asked to report inventories of individual establishments at approximate current cost if

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feasible; otherwise, "at book values." Since different methods of inventory valuation are used (LIFO, FIFO, etc.), the definition of the aggregate inventories for establishments in an industry is not precise. The figures on the change in inventories from one period to the next are of greater significance than the actual aggregates.

Inventories are reported by stage of fabrication: (a) finished goods; (b) work in process; and (c) materials, supplies, fuel, and other inventories. In using inventories by stage of fabrication at the all manufacturing and 2-digit industry levels as well as for the durable and nondurable goods sectors, it should be noted that a finished product of one industry may be a raw material for another industry at the next stage of fabrication. Insofar as the durable and nondurable goods sectors and also the 2-digit industry groups contain industries with successive stages of processing, the same type of commodity may be included under different inventory categories in the aggregate statistics.

New Orders Received and Unfilled Orders—Orders as reported in the monthly survey are net of cancellations during the month. They include orders received during the period and also filled during the period as well as those orders received for future delivery. They

also include the net sales value of contract change documents which increase or decrease the sales value of the unfilled orders to which they relate. Orders include only those supported by binding legal documents such as signed contracts, or letter contracts. In case of letter contracts the full amount of the sales value is included if the parties are in substantial agreement on the amount; otherwise, only the funds specifically authorized to be expended are included. The respondent is instructed to deduct the sales value of partial or complete cancellation of existing orders.

Unfilled orders include orders as defined above that have not yet passed through the sales account. Generally, unfilled orders at the end of the reporting period are equal to unfilled orders at the beginning of the period plus net new orders received less net sales.

While both new orders and unfilled orders are used in reviewing individual company reports for consistency, only unfilled orders are estimated directly in the tabulated totals. New orders are derived from the shipments plus net change in unfilled orders for each industry category. This procedure is followed for seasonally adjusted data as well as for the unadjusted data. Shipments and unfilled orders are seasonally adjusted independently. Seasonally adjusted new orders are derived from seasonally adjusted shipments and seasonally adjusted unfilled orders.

